

MIT's
Oldest and Largest
Newspaper



The Weather
Today: Warm with light
rainfall, 47°F (8°C)
Tonight: Periods of moderate
rainfall, 38°F (3°C)
Tomorrow: Heavy rainfall, 44°F (7°C)
Details, Page 2

Volume 128, Number 1

Cambridge, Massachusetts 02139

Tuesday, February 5, 2008

Students, Supporters Turn Out For Obama

Late on Monday Night, Thousands of People Attend Presidential Candidate's Rally

By Nick Bushak
NEWS EDITOR

On the eve of Super Tuesday, eager Bostonians stuffed themselves into crowded Silver Line buses. They followed signs held by Barack Obama volunteers titled "This way for change" to a long, winding line outside the Seaport World Trade Center.

Thousands came to Senator Barack H. Obama's "Stand for Change" rally, held last night at the World Trade Center, many college-age. Senator Edward M. Kennedy, Senator John F. Kerry, and Governor Deval L. Patrick, all of whom have endorsed Obama, made appearances at the event.

Attendees came from all around Boston to the rally, which began at 8 p.m. with speeches from state and local political figures. Obama himself did not take the stage until 11 p.m.

When Obama spoke, two words came up most often: "change" and "belief." Trying to dismiss concerns of those who believe he is naïve, Obama said "hope is not ignorance." Obama also took a quick jab at other candidates who are now running with his message: "this change thing is catching on, because now everyone is talking about change."

On the eve of the Massachusetts primary, Obama spoke carefully, minimizing direct criticism of his chief opponent, Senator Hillary R. Clinton.

Instead, Obama tried to reinforce his own message among undecided voters who might harbor last-minute doubts about his campaign.

Obama has served in the U.S. Senate for only three years, and he served in the Illinois Senate for eight

years — a shorter political tenure than Clinton can claim. Kerry said of this relative inexperience that "experience is not defined by time in Washington." It is defined, he said, "by wisdom, instinct, gut, and courage."

Obama also tried to address concerns that his caution, when applied to working as America's commander in chief, would endanger the country. "I will keep you safe," he said. He added that "I won't hesitate to strike [against enemies]" if necessary.

And Obama emphasized his desire to be a bipartisan leader, attracting the support of both Democrats and Republicans. "I'm changing registrations," he said.

Kerry mentioned the world's opinion of Obama as one of Obama's strengths. He said "this man [Obama] is being watched by the world."

While there were few attacks on the Clinton campaign last night, there were plenty of digs at the Bush administration. Obama called the war in Iraq a "recruitment tool" for Al-Qaida.

In a humorous aside, Obama talked about discovering that he was related to Dick Cheney. "That was embarrassing," he said. "You know, when they do these genealogical surveys, you're hoping that you're related to someone cool."

Perhaps as important as Obama's speech was his supporters.

Andrew Saperstone, a freshman Marketing and Communications major at Emerson College, attended the rally "hoping to solidify some things." He said he was leaning towards Obama, but was still undecided.

Rally, Page 17



Democratic Presidential candidate Barack Obama waves to an excited crowd during a rally last night at the World Trade Center in Boston.

Was Star's LED Star Protected Speech?

By Nick Semenkovich
EDITOR IN CHIEF

Star A. Simpson '10, who faces charges of possessing a hoax device, came back to the East Boston District Court last Friday, Feb. 1 for a pretrial hearing. At the hearing, her attorney asked the court to dismiss the case. The judge said that he would rule on that motion on March 21, The Associated Press reported.

The charges against Simpson stem from an incident on Sept. 21, 2007 when she walked into Logan International Airport wearing a circuit board covered by light-emitting diodes forming a star. A Logan information desk worker mistook her circuit board for a bomb, and Simpson was arrested at gunpoint outside the airport.

The arrest drew national attention and comparisons to the January 2007 bomb scare, when Boston police mistook as bombs dozens of small light-up boards, displaying cartoon characters, that had been scattered throughout the city as part of a Cartoon Network promotional campaign.

At Friday's hearing, Simpson's attorney, Thomas Dwyer Jr., argued for a motion to dismiss on the grounds that wearing the circuit board was free expression protected under the

Simpson, Page 8



STEVE HOWLAND—THE TECH

David L. Reens '11, Brandon T. Lew '11, and Allen S. Yin '11 of team 10 retract their robot's wall after a match during the 6.270 final competition on Jan. 31. Many teams employed defensive strategies such as this, yet walls often led to scoreless matches that resulted in losses for both teams. 6.270 is an IAP class for MIT students where participants design and build a robot using LEGOs.

Oversubscribed Biology Class Will Spill Into 4-370

Students in 7.013 Will Fill MIT's Largest Lecture Hall

By Michael McGraw-Herdeg
EXECUTIVE EDITOR

Although 659 people have pre-registered for Introductory Biology (7.013), only 566 seats are available in the 26-100 lecture hall where the subject will be taught. Students who cannot fit in 26-100 will still be able to see the lecture via a live video stream shown in 4-370. A course instructor and teaching assistants will be in the overflow room to answer students' questions.

Tyler E. Jacks, one of the two lecturers for 7.013, said that he has taught the subject five or six times before, and that in the past it has attracted about 500 students.

One cause of the subject's unusual popularity may be that two other introductory biology classes, 7.014 and 7.015, will not be offered this spring. 7.014 is usually offered every semester, but it is not being taught in 2007–2008. The Biology Depart-

ment also announced in November 2007 that 7.015 would not be taught in the spring.

Another factor which may explain the increased enrollment in 7.013 is that the Department of Biology no longer gives credit for 7.012 to students who scored a 5 on the Advanced Placement Biology exam. The General Institute Requirements, MIT's core curriculum, require a student to have credit for any one of the introductory biology classes 7.012, 7.013, 7.014, or 7.015.

About one-fourth of the Class of 2009 received AP credit that satisfied the GIR biology requirement. The Class of 2011 was the first which did not receive AP credit, although about sixteen members of the class received biology credit last fall by taking an Advanced Standing Exam.

Jacks said that about 75 percent

Crowding, Page 8

In Short

¶ Vote today in the Massachusetts primaries!

¶ Register for classes by Friday, Feb. 8 or face a \$40 late fee.

Send news information and tips to news@the-tech.mit.edu.



Musical Theater Guild hosts 'Wild Party'

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NEWS

Microsoft plans lab in Cambridge
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Professors discuss feasibility of feats in 'Jumper'

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WORLD & NATION

Daschle Uses Senate Ties To Blaze Path for Obama

By Carl Hulse and Jeff Zeleny

THE NEW YORK TIMES

WASHINGTON

When Sen. Edward M. Kennedy was ready to deliver his endorsement of Sen. Barack Obama, Kennedy did not call Obama headquarters. He got in touch with Tom Daschle, the former Senate Democratic leader who had quietly been serving as the liaison between Obama and fellow senators.

Behind the scenes, Daschle has played an intriguing role in Obama's Senate career and presidential campaign as a confidant and an early supporter who lent authority to Obama's ambitions when others doubted the prospects of the young newcomer to Washington.

Now Daschle, who represented South Dakota in the Senate until his defeat in 2004, is becoming increasingly active on behalf of Obama, serving as ambassador to big-name backers like Kennedy, building support among American Indians, pushing back against the Clinton campaign and making personal appearances of his own.

After a stinging defeat at home, Daschle has discovered the pleasures of campaigning when someone else's name is on the ballot.

"It is all of the fun and none of the pressure," said Daschle, who on Monday was calling through a list of party officials who will serve as convention delegates, wooing them on Obama's behalf. "I feel liberated."

Some Residents Skeptical of Account of Mall Shooting

By Catrin Einhorn and Monica Davey

THE NEW YORK TIMES

TINLEY PARK, ILL.

Relatives of the only survivor of a weekend shooting here that left five women dead inside a clothing store told a Kentucky newspaper that all of the women inside the shop had been bound and then shot in the back of their heads.

The survivor, whose family said she was a 33-year-old part-time employee at the Lane Bryant store, was shot along with the rest. But the bullet went into her neck, missing vital organs, her mother told The Messenger, a newspaper in Madisonville, Ky., near where the mother lives.

The authorities in Tinley Park, a southwest suburb of Chicago, would not comment on the description given by the family members and offered few details of the Saturday morning shooting, which they say was a robbery that turned deadly in a strip shopping center. No arrests have been made in the case.

"There's so much misinformation going on right now," Sgt. T.J. Grady of the Tinley Park police said without elaborating during a short news conference on Monday.

Turkey Strikes Towns in Kurdistan

By Alissa J. Rubin and Sabrina Tavernise

THE NEW YORK TIMES

BAGHDAD

Turkish warplanes bombed villages in Iraqi Kurdistan on Monday as the Kurds came under pressure on several fronts: representatives in Parliament discussed the Kurdish share of the budget, and the Turkmen, a minority group primarily in northern Iraq, declared that they would no longer support efforts to hold a referendum on whether the city of Kirkuk should join the Kurdistan region.

In a statement on its Web site, the Turkish military said it had struck 70 targets in the Avashin and Hakurk districts in a 12-hour bombing run that began at 3 a.m. The military did not give details on damage or deaths. It said the targets were in 11 places.

Turkey's military has been fighting a militant fringe of its ethnic Kurdish minority for decades. The militants, known as the Kurdistan Workers' Party, hide in Turkey and Iraq. They are trying to force Turkey to give greater rights and recognition to its minority Kurds.

In 24 State Primaries Today, Candidates Vie For Delegates

By Adam Nagourney

THE NEW YORK TIMES

Brace yourself.

Forty-three presidential nominating contests in 24 states. Channel upon channel of the commentators talking about exit polls. The biggest prize of the night — California — being decided well after most viewers have headed for bed. A total of 3,156 delegates allocated under arcane rules on what could be the most significant night of the 2008 campaign to date.

This is a guide of things to look for on Tuesday night — key states, trends, interesting demographic developments, campaign-ending or -extending developments — starting from when the first polls close (Georgia at 7 p.m.) to when the voting is completed in California at 11 p.m. Eastern time.

There are two ways to approach the results. The first is old-fashioned: which candidates rack up the most states. But this is about more than popular vote totals; the point of these contests is to allocate delegates to the national conventions.

Thus, the big question is how much attention to pay to the re-

sults map on television — lighted up with, say, states that have swung to Sen. John McCain's column — and how much attention to pay to the delegate counter. The answer is pay attention to both, though put somewhat more focus on states for the Republicans and put somewhat more on delegates for the Democrats. The delegate count might matter more officially, but the state results could count more politically, and that will be the central tension of the night.

Democrats allocate most of their delegates proportionately; candidates are awarded a cut of the delegate pie based on their percentage of the vote. It is likely that the losing candidate will still get a substantial share of the delegates.

Sens. Barack Obama and Hillary Rodham Clinton will no doubt start claiming state victories as soon they can — with the goal of trying to get on television and grab the front-runner spotlight — but those results will probably remain largely symbolic. Assuming the race remains close, what matters going forward is who gets the most

pledged delegates.

Republicans delegate selection rules are different. In eight of the 21 Republican contests, the winner gets the delegates — no dividing up the spoils. What that means is that it is going to be easy for a candidate to build up a big delegate lead on Tuesday night and, combined with winning some big states, credibly declare himself the party's presumptive nominee. That is precisely what McCain is looking to do.

Keep in mind that the winner of the states is probably going to become known well before the delegate counts are finished, and that is going to color the way the results are reported on television and in newspapers. The outcome in California, the biggest prize of the night and a major factor in either way of judging the night, is not going to be known until the wee hours.

"Don't be rushed into making an early judgment without California," said Robert Shrum, a Democratic political analyst. "You have to resist the pre-California spin unless someone is winning like 16 of the 22 states."

Candidates Blitz States As Key Super Tuesday Votes Approach

By Michael Cooper

THE NEW YORK TIMES

The presidential candidates from both parties campaigned frenetically on Monday, making their final pushes with a series of rallies and blitzes of television commercials for a last bout of November-style campaigning before more than 20 states vote in Tuesday's virtual national primary.

Several candidates — including Sens. Barack Obama, Hillary Rodham Clinton and John McCain — focused their time on the delegate-rich Northeast. But the tightening race in the biggest prize of all, California, was underscored when Mitt Romney and McCain both made changes to their schedules to add 11th-hour visits there.

The final day of campaigning before Feb. 5 showed how the dynamic of the race had shifted in the

last month. Clinton, who was long considered the Democratic favorite, found herself locked in a series of races in several states with Obama. On the Republican side, which only weeks ago had seemed wide open, McCain sought to ride his recent victories and rising poll numbers to the nomination, while Romney sought to win enough delegates to keep his campaign alive.

Romney spent much of the day trying to cast doubts on McCain's conservatism — a theme that echoed loudly among conservative talk-radio commentators suspicious of his past positions on taxes and immigration.

"We're going to hand the liberals in our party a little surprise," Romney boasted in Atlanta, predicting victories in California and other states.

McCain responded with a na-

tional television advertisement showing Romney, in a previous campaign, saying: "Look, I was an independent during the time of Reagan-Bush. I'm not trying to return to Reagan-Bush." The announcer says: "Mitt Romney was against Ronald Reagan before he was for him."

The candidates embarked on a final frenzy of campaigning. Romney began a grueling 24-hour tour to try to block McCain from sewing up the Republican nomination. Clinton had an emotional moment during a nostalgic visit to Yale, where she graduated from law school 35 years ago. And, in the psychological warfare department, McCain swaggered into the heart of Romney country with a rally at Faneuil Hall in Boston, while Obama held a rally in East Rutherford, N.J., across the Hudson River from Clinton's home state of New York.

WEATHER

The Day After Tomorrow

By Mike Yee

STAFF METEOROLOGIST

It always rains on the loser's day parade. Storms are sweeping in like defensive linemen swarming after a scrambling quarterback. Relatively warm temperatures will peak around fifty degrees Fahrenheit before cooler air and precipitation sneak in like slot receivers on a third down slant route. The high pressure system responsible for our recent spate of clement weather is slipping away like dreams of a perfect season and a Super Bowl victory.

Elsewhere in the country, a strong region of low pressure is hovering off the shore of Vancouver, showering the Pacific Northwest in a wintry mix. A series of fronts slash across the Great Plains states, resulting in moderate snow and rainfall in Texas. The system will migrate to the north and east, striking New England early tomorrow. Be prepared for heavy rainfall. Radar detects a small amount of gloating localized near New York.

Across the ocean, China is struggling to recover from three weeks of severe blizzards that have stalled buses, trains, and planes across the country. The storms have disrupted the travel plans of millions seeking to return home to their families for the Chinese New Year; the massive load on the country's transportation system accounts for the largest annual human migration on the planet.

Extended Forecast

Today: Warm with light rainfall. High 47°F (8°C).

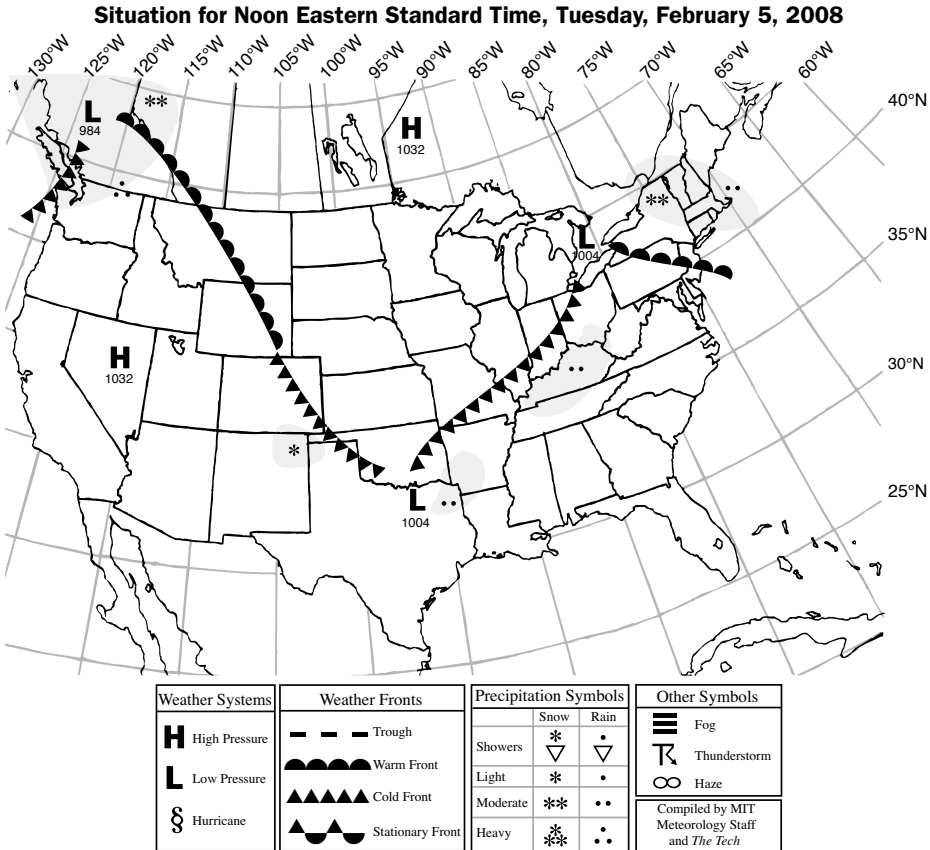
Tonight: Periods of moderate rainfall. Low 38°F (3°C).

Tomorrow: Heavy rainfall. High 44°F (7°C).

Tomorrow night: Light rain, tapering off late. Low 32°F (0°C).

Thursday: Cold; possibility of snow. High 34°F (1°C).

Thursday night: Clear, cooler. Low 26°F (-3°C).



Hispanic Voting Bloc Expands As Immigrants Become Citizens

By Julia Preston
THE NEW YORK TIMES

Spurred by the widespread crack-down on illegal immigration and by the strident tone of the national immigration debate, Latinos are gearing up for Tuesday’s voting with an eye toward making Hispanics a decisive voting bloc nationwide in November.

After decades of relatively low Hispanic electoral participation, last year more than a million legal Latino immigrants applied to become citizens, with many saying they had done so to be able to vote. Since then, newly naturalized Hispanic-Americans and citizens since birth have turned out at voter registration fairs and political discussion groups, and pressed relatives to register.

Last week’s primary in Florida, the first state with a big Hispanic population to vote, gave a demonstration of their potential clout. Hispanic voters, who were 12 percent of the electorate — a strong turnout for a primary — handed the decisive edge in the Republican contest to Sen. John McCain of Arizona over

Mitt Romney, the former governor of Massachusetts, according to exit polls by Edison/Mitofsky.

The two candidates were essentially even among white voters, with 33 percent for McCain and 34 percent for Romney. But Latino voters, including Cuban-Americans and others, favored McCain by 54 percent to 14 percent for Romney. (McCain is known among Latinos for backing an immigration bill offering legal status to illegal immigrants that was defeated last year by conservatives from his party.)

On the Democratic side, Hispanics also contributed to the 16-point victory in Florida of Sen. Hillary Rodham Clinton of New York over Sen. Barack Obama of Illinois, with 59 percent of Latinos voting for her and 30 percent voting for him.

Hispanics regard voting this year as a strategy of self-defense, said Sergio Bendixen, a pollster based in Miami. For many of them, Bendixen said, “the immigration debate has not been about immigration policy. It has been about whether Hispanics belong in America.”

Hispanics “feel they need to vote

to show they are a group that cannot be abused or discriminated against,” said Bendixen, who surveys Hispanics for the Clinton campaign.

On Tuesday, 24 states that include nearly 60 percent of the nation’s Hispanic electorate will be voting in primaries or caucuses. Voting that day will be seven of the 10 states with the highest percentages of Hispanics among their voters, including New Mexico, where Hispanics constitute more than one-third of the electorate (Democrats will caucus there), California, where they are about 23 percent, and Arizona, where they are about 17 percent.

The electoral energy has been channeled by a voter registration campaign that has built new links between local Hispanic organizations and major Spanish-language media, led by Univision, the national television network.

Both Republican and Democratic strategists say that aggressive immigration enforcement and tough talk against illegal immigration by the Republican candidates, with the exception of McCain, have antagonized Hispanics in general.

States Prepare to Test New Voting Systems, Ballot-Counting Tactics

By Ian Urbina
THE NEW YORK TIMES

After California ordered a switch to paper ballots from touch-screen voting machines for Tuesday’s primary, election officials in 7,200-square-mile Riverside County had to decide the best way to pick up the ballots so they could be centrally counted on time: helicopter or truck?

They chose land rather than air, because the last time the helicopter had been grounded by fog. But then they encountered another problem: 60,000 absentee ballots had begun to fall apart at the fold lines.

“They may be high-tech or they could be low-tech, but the problems are always there,” said Barbara Dunmore, the county registrar of voters.

As voters in 23 states head to polls or caucuses on Tuesday to pick their party’s presidential candidate, local election officials around the country are bracing for a long, exhausting night and an array of unpredictable factors that might prevent some states from reporting final tallies until early Wednesday. Although no one is predicting serious problems, many voting officials acknowledge that they

could happen.

Several states are expecting a higher than usual turnout, which could increase bottlenecks in precincts with too few voting machines. The growing popularity of absentee voting is also contributing to possible delays because the ballots take more time to process and often arrive at the last minute.

Voting experts have raised concerns about the six states using paperless touch-screen machines, which could make recounts impossible in close races or cases of computer failure. And the rush by states to move up their caucus and primary dates has shortened the amount of time voting officials have to hire and train poll workers.

In California, which has the highest number of delegates, election officials in the 20 counties without paper-trail machines were told by the state in August to switch back to paper ballots. But those ballots will have to be counted at a central location using the same scanners that normally count the absentee votes, because the counties were not able to acquire enough machines to perform

tallies at individual polling places.

About half of California voters are expected to vote by mail, and many of them, voting officials say, have waited until the last moment to send their ballots. These ballots take longer to process than those cast on Tuesday because workers must open the envelopes, separate the contents and check for signatures, even before the ballot is fed into the counting machine.

Thirty-four states, including 15 of those with votes Tuesday, now make it easier to vote early or absentee, dropping a requirement that such voters explain themselves. Several of these states may face delays in counting, according to the Early Voting Information Center, a research group based at Reed College in Portland, Ore.

Georgia adopted no-excuse absentee voting in 2005 and, like Arizona and California, has seen a recent increase in the number of absentee voters, said Paul Gronke, a political science professor at Reed.

“If there is a sudden and unexpected surge in absentee ballots and election officials have not prepared, we could see serious delays in tallies,” Gronke said.

Bush’s Final Budget Hints at Tough Decisions to Come For His Successor

By Steven R. Weisman
THE NEW YORK TIMES

WASHINGTON

President Bush’s final budget, a \$3-trillion plan offered on Monday that would continue his tax cuts and sharply reduce domestic spending, has little chance of surviving in a Democratic Congress. But the problems it lays out will survive and grow, presenting tough choices for the next administration.

How, for example, will the next president rein in the cost of retirement and health programs? What will he or she do about tax increases on Americans when Bush’s tax cuts expire at the end of 2010, or when the alternative minimum tax propels millions of taxpayers into higher brackets each year?

Beyond these familiar traps, how will a Republican president pay for further promised tax cuts or a Democratic president pay for sweeping health care reform without increasing the red ink left by Bush?

“Republicans and Democrats are in complete denial on these issues,” said Robert D. Reischauer,

president of the Urban Institute and former director of the Congressional Budget Office. “But were they to face up to the long-run fiscal challenges, it would be a ticket to defeat. It’s not what voters want to hear.”

The presidential campaign does not exactly reverberate with proposals for dealing with these problems.

For the Democrats, Sens. Barack Obama of Illinois and Hillary Rodham Clinton of New York would find the money by letting taxes rise for the wealthiest Americans. But that step would not raise enough money to pay for the spending programs they propose.

On the Republican side, Sen. John McCain of Arizona and former Gov. Mitt Romney of Massachusetts would cut wasteful federal spending — McCain points to “earmarks” for “pork barrel” projects — but budget experts agree that there is not enough money to be had from that course of action, either.

Bush’s budget would cut ear-

marks by \$18 billion, an amount certain to provoke outcries in Congress but so small as to be of only symbolic importance.

A presidential election year, of course, is rarely a time for politicians to propose outsized, unpleasant choices. But with the economy turning downward, there is even less appetite this year to wage ideological battles.

The deficit is expected to grow to at least \$400 billion, or just under 3 percent of the gross domestic product, in Bush’s final year in office, and probably more than that because of the Iraq war. That level approaches previous deficit records and is considerably higher than what Bush had projected a few months ago. The largest federal budget deficit — \$413 billion, or 3.6 percent of the overall economy — came in the 2004 fiscal year.

But a large part of the shortfall results from the normal decline in federal revenues when there is an economic downturn, along with the stimulus package that leaders of both parties support.

Muslims Protest Wikipedia’s Depictions of Muhammad

By Noam Cohen

THE NEW YORK TIMES

An article about the Prophet Muhammad in the English-language Wikipedia has become the subject of an online protest in the last few weeks because of its representations of Muhammad, taken from medieval manuscripts.

In addition to numerous e-mail messages sent to Wikipedia.org, an online petition cites a prohibition in Islam on images of people.

The petition has more than 80,000 “signatures,” though many who submitted them to ThePetitionSite.com, remained anonymous.

“We have been noticing a lot more similar sounding, similar looking e-mails beginning mid-January,” said Jay Walsh, a spokesman for the Wikimedia Foundation in San Francisco, which administers the various online encyclopedias in more than 250 languages.

A Frequently Asked Questions page explains the site’s polite but firm refusal to remove the images: “Since Wikipedia is an encyclopedia with the goal of representing all topics from a neutral point of view, Wikipedia is not censored for the benefit of any particular group.”

The notes left on the petition site come from all over the world. “It’s totally unacceptable to print the Prophet’s picture,” Saadia Bukhari from Pakistan wrote in a message. “It shows insensitivity towards Muslim feelings and should be removed immediately.”

The site considered but rejected a compromise that would allow visitors to choose whether to view the page with images.

Mired in Crisis, Italy Veers Toward Elections

By Ian Fisher

THE NEW YORK TIMES

ROME

Italy seemed headed toward elections after the Senate president said Monday that he could not find enough support in Parliament to form a temporary government that would fix the nation’s flawed electoral law.

The failure to form an interim government — and thus to find a quick fix for the nation’s political crisis — seemed a victory for Silvio Berlusconi, the nation’s richest man, who has served two terms as prime minister and is aiming at a third one. Leading in the polls, he and his allies on the center-right told the Senate president, Franco Marini, in meetings early in the day that the only solution was to go to elections with the current law.

“We affirmed that the best thing for the country is to immediately give Italy a government legitimated by a popular vote,” Berlusconi told reporters after the meeting with Marini. He said he hoped to win election, then start negotiating about any changes.

Last week the nation’s president, Giorgio Napolitano, asked Marini to try to find multiparty support for a government to make reforms in the electoral law.

There is wide consensus in Italy that the law, pushed through Parliament by Berlusconi before the last elections in 2006, causes instability by favoring small parties. The law uses a complex region-by-region formula that is intended to reward political coalitions but instead has made it more difficult to form a clear majority in the upper house, the Senate.

Extending HIV Mothers’ Drugs May Help Nursing Infants

By Lawrence K. Altman

THE NEW YORK TIMES

BOSTON

Over recent years, giving an antiretroviral drug to a woman infected with the AIDS virus in labor and to her baby at birth has reduced the risk of transmitting the virus to the baby.

Yet many babies born uninfected go on to acquire HIV, the AIDS virus, in the lengthy period of breast-feeding because of contamination of the mother’s milk.

Researchers have found for the first time that the incidence of the virus among breast-fed infants can be significantly reduced by extending antiretroviral drugs for much longer periods, up to six months, according to a number of studies reported on Monday at a scientific meeting here.

“Making breast feeding safe is an urgent need,” Dr. Taha Taha, a researcher from Johns Hopkins who led a study in Malawi, said at a news conference.

Breast feeding accounts for up to 48 percent of HIV infections among infants in developing countries, researchers said.

The findings open the way for new prevention strategies in areas where infected mothers cannot avoid breast-feeding for a number of reasons. They include lack of access to formula, strong cultural traditions of breast-feeding and reluctance to use formula for fear of being stigmatized as being infected, the federal Centers for Disease Control and Prevention said.

Florida Insurers Defend Increases in Home Rates

By Joe Follick and Kirk Semple

THE NEW YORK TIMES

TALLAHASSEE, FLA.

Facing accusations that they have been gouging customers, executives from one of Florida’s largest homeowners’ insurance companies told a special state Senate committee on Monday that they had been forced to raise rates to offset losses and prepare for the possibility of more frequent hurricanes in the future.

The company, Allstate Floridian Insurance, “faces the very real risk of being wiped out in the event of a bad hurricane season,” said Joseph Richardson Jr., chairman and chief executive. Allstate Floridian is a subsidiary of the Allstate Insurance Co.

The testimony came on the first day of a two-day hearing into the soaring costs of Florida hurricane insurance, which has become one of the most pressing concerns for homeowners here.

Executives from Nationwide Insurance Co. of Florida also appeared before the Senate panel, the Select Committee on Property Insurance Accountability, and officials from two other companies were scheduled to testify on Tuesday.

OPINION



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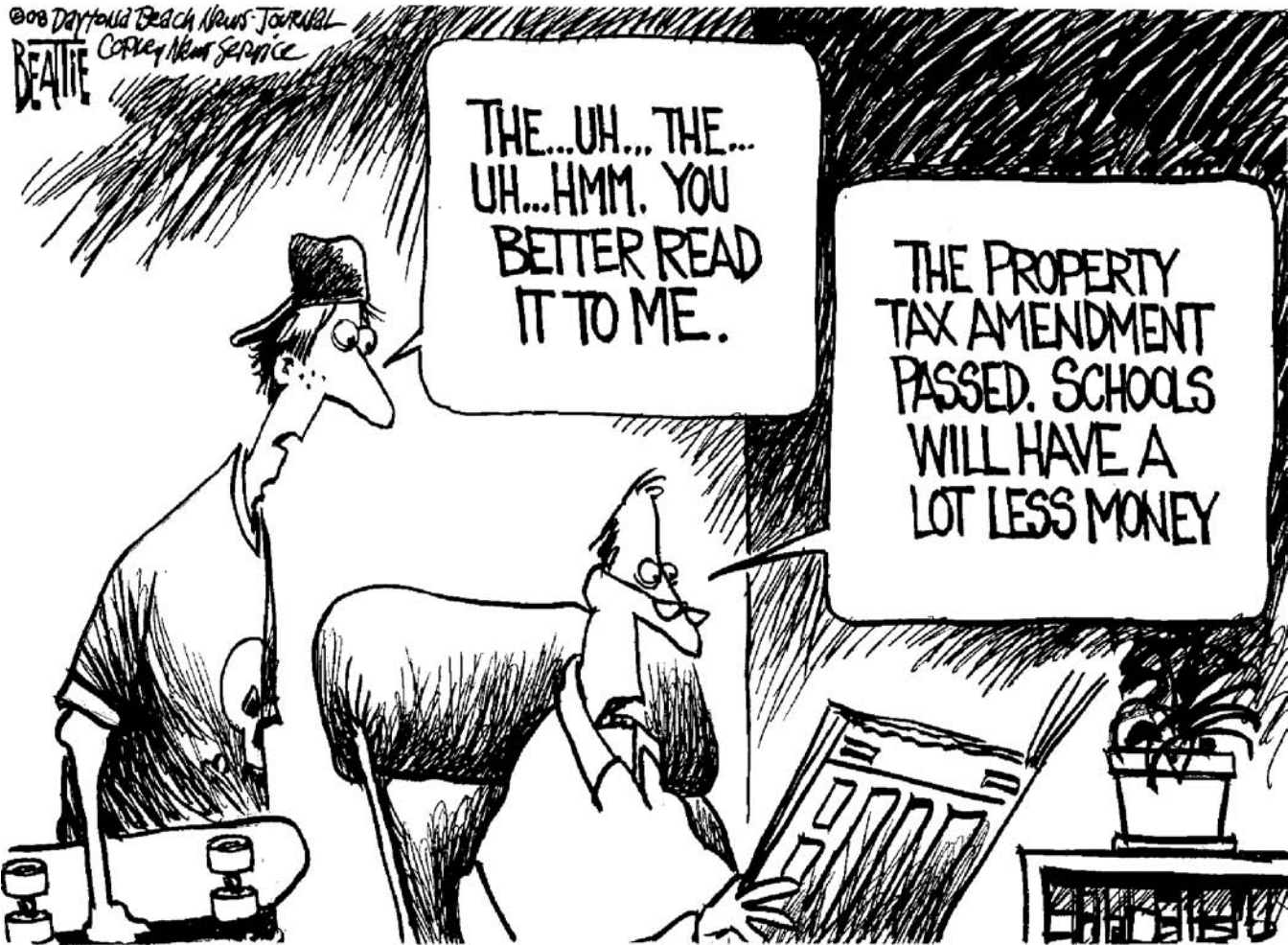
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Corrections

The headline of the article “MIT Arab Students Speak in Jerusalem, Promote Education,” which ran in *The Tech*’s Jan. 30, 2008 issue, referred imprecisely to the nation of origin of one of the students who visited the Middle East, Rameez A. Qudsi G. Qudsi was born in Pakistan and is not “Arab,” although he said he has an interest in the social and cultural issues of Arab culture, and he participated in the event as part of an Arab mentorship organization formed by the MIT Arab Students’ Organization.



“WHITE HOUSEKEEPING!”

Opinion Policy

Editorials are the official opinion of *The Tech*. They are written by the editorial board, which consists of Chairman Benjamin P. Gleitzman, Editor in Chief Nick Semenkovich, Managing Editor Jessica Witchley, Opinion Editor Aditya Kohli, and Contributing Editor Rosa Cao.

Dissents are the opinions of signed members of the editorial board choosing to publish their disagreement with the editorial.

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CAMPUS LIFE

It's a Big, Big World

The Trade-offs of Trade

By Diana Jue
STAFF COLUMNIST

In the Buenos Aires financial district, rusting metal riot blockades remain on the sidewalks near the banks, which are modern-day fortresses, outfitted in concrete and secured by guards. In public plazas, black gates surround statues of political figures to protect them from vandalism. Politically charged graffiti is littered throughout Avenida de Mayo, the street that connects Congress to Plaza de Mayo – Buenos Aires’ historical location of political protest. At dusk, *cartoneros* – who would otherwise be unemployed – pick through city trash bins in search of cardboard scraps to sell. At night, homeless individuals sleep in doorways of closed shops in the upper class Recoleta neighborhood.

These observations were remnants of the early 2000 Argentine economic crisis and consequent riots that revealed a common theme in all the cities I visited: policies promoting market-driven development. These strategies include removing international trade restrictions, deregulation, privatization of state-owned businesses, and private sector management of natural resources. In many cases, international institutions like the International Monetary Fund, the World Bank, and the World Trade Organization play a large role in determining national economic policies.

Before studying abroad, I held a negative attitude toward international institutions and purely market-driven development. The IMF and the World Bank are predominately controlled by wealthy nations because the level of a nation’s financial contribution determines voting power. Market-driven development was unfair and only supportive of the existing wealthy class. Beginning my international studies in Buenos Aires, a city whose citizens are still recovering from crisis, definitely fueled my opinions.

IMF loans in the 1970s and 1980s required Argentina to open its economy to foreign investors. Although this and other events caused debt and inflation, President Menem in 1989 continued these trade liberalization policies. As a result, GDP increased and unemployment tripled. To stop hyperinflation and preserve the currency’s value, the peso was pegged to the dollar. Argentina’s international debt grew through the 1990s, but the IMF continued lending to Argentina, even though it was clear that the country was insolvent. Argentina’s recession scared away investors and the government froze bank accounts when citizens wanted to take out their money.

I visited a soup kitchen of the *Asamblea de Pompeya*, one of many neighborhood as-



DIANA JUE—THE TECH

Shanghai’s riverside, historical Bund area is lit up from new development.

semblies that discussed politics and practiced direct democracy during the crisis. Ricardo, one of the assembly’s founding members, shared his thoughts with us. He was somewhere between 50 and 60 years old, heavy set, and during our visit, particularly militant-looking in olive drab and a face that could not hide the struggles he faced in his poor community. Using a translator, he described the December 2001 riots.

Ricardo and his neighbors took to the streets, robbed supermarkets, blockaded a neighborhood set ablaze, and participated in deadly clashes with police. After the resignation of President Fernando de la Rúa, Argentina had five presidents in two weeks. Meanwhile, there was a serious lack of jobs and

over half of Argentina’s population fell below the poverty line. “Poverty and hunger were everywhere, not just in shantytowns, but people who owned homes, the retired people,” said Ricardo. He recounted how the currency was devalued to less than one third of its original value and “money was useless.”

My Buenos Aires host mother blamed the IMF’s conditional loans. The Argentina program coordinator was fond of community-based anti-government movements that promoted a new, locally-based economic order. This tone continued in Bangalore, where one speaker railed against all international financial institutions for one and a half hours and gave us handouts entitled “A World without the World Bank and the Asian Development

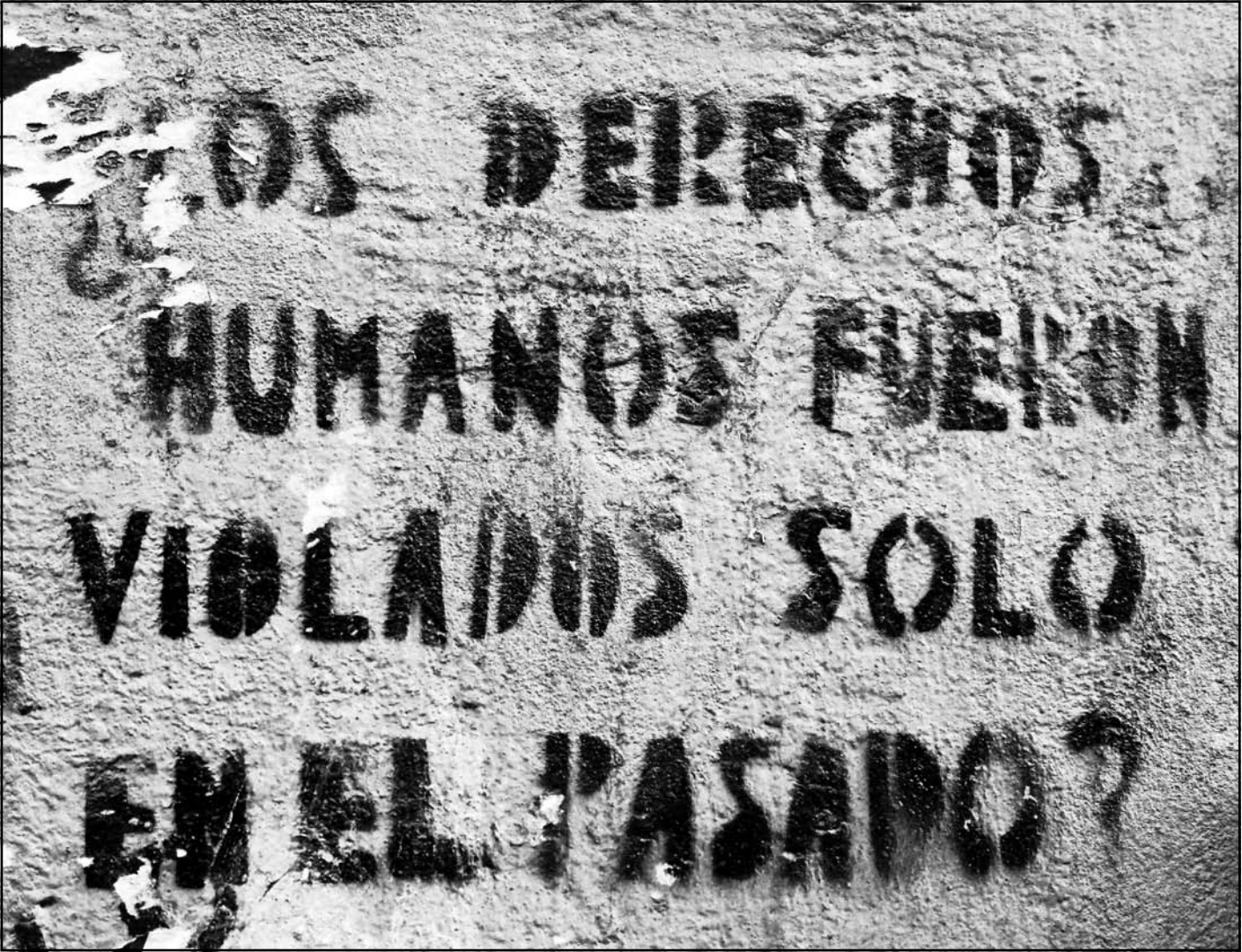
Bank.” The country program coordinator criticized the social injustices of water privatization and development on rural lands.

Our last stop was Shanghai, a literal city of lights. I sat on the deck of an evening boat cruise on the Huangpu River, where the view of the lit-up Pudong financial district – with the dynamic pink lights of the Pearl Tower – was absolutely breathtaking. Blue and yellow spotlights lined the elevated highways that ran alongside the downtown skyscrapers. Street vendors sold glowing spin tops and attachable tennis shoe wheels covered with LED lights. There was even an underwater tunnel that covered tourists in a psychedelic light show accompanied by trippy music (it’s worth going through once but definitely not twice).

Shanghai is China’s economic light, a model that has experienced exorbitant success. When the government authorized Shanghai’s market-driven development in 1992, the city of nearly 19 million quickly became a center of trade and finance. Last year it boasted a 12 percent growth in GDP and a \$7,500 per capita GDP. The city represents the country’s nexus of a global economy.

I didn’t spend as much time here as I did in the other cities or hear any completely dissenting opinions (Chinese economists and researchers definitely censor themselves) or have the opportunity to see rural China. But after observing the city on my own, walking through crowded Linong residential complexes, and along the sidewalks of tall skyscrapers, I thought, not too shabby. Understandably, Shanghai has problems. However, of the four cities I visited, Shanghai was most able to keep up with the global economy and provided the most economic opportunities at all levels of society – at least for people whom I met and observed. Could the market be working for them?

At the end of this trip and now as I’m processing it, I know that anti-globalization is a wrong choice. Countries cannot develop in isolation, and there are moral issues like environmental degradation, which should be limited but realistically cannot completely stop. A moderate form of globalization may be the best – one in which free trade is allowed but safety nets for the poor are also provided by international institutions or donors. Reforms are needed in international financial institutions, which should be held accountable for failed projects. Middle-income countries like India should investigate other models of development and development financing, as well. Hopefully, development can do more good than bad for everyone affected.

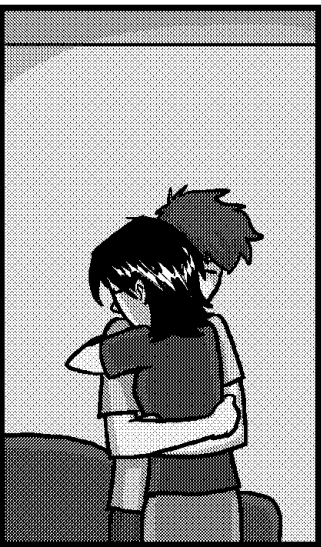
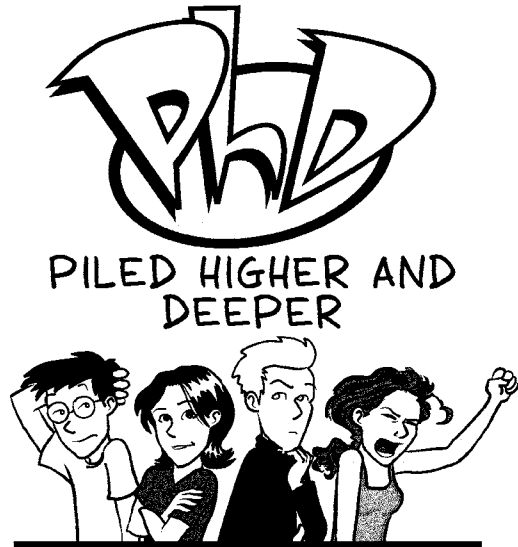


DIANA JUE—THE TECH

Graffiti in Buenos Aires reads “Human rights were only violated in the past?”

Steal My Comic

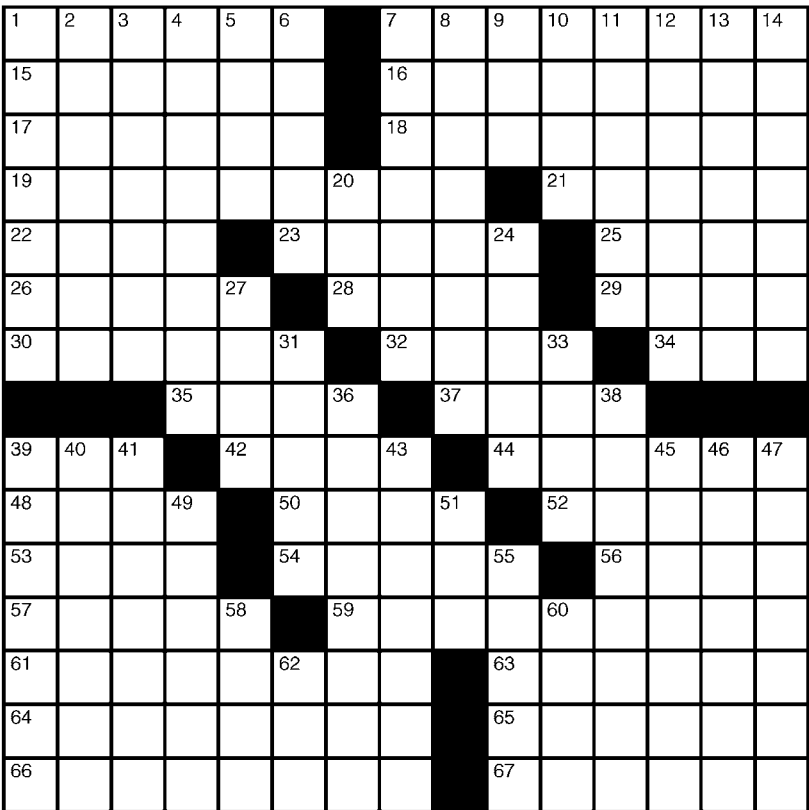
by Michael Ciuffo



WWW.PHDCOMICS.COM

Crossword Puzzle

Solution, page 8



ACROSS

- 1 Know-how
- 7 Checks the flow of
- 15 Corrida celeb
- 16 Tree specialist
- 17 Source
- 18 Produce anew
- 19 Old-time communication
- 21 Confused mingling
- 22 Alternatives to lagers
- 23 Man of La Mancha
- 25 Coarse seaweed

26 Prose romances

- 28 Crooner Jerry
- 29 Mark-down event
- 30 Regard highly
- 32 Dollar value
- 34 Coop denizen
- 35 "A time to __, a time to sow..."
- 37 Line of stitches
- 39 "48 Hours" network
- 42 Open-handed blow
- 44 Finish
- 48 Jalopy

50 Golf course hazard

- 52 Maine college town
- 53 Border
- 54 Abraham's wife
- 56 Teheran's place
- 57 Sends forth
- 59 Ralph Macchio movie
- 61 Covered with skin art
- 63 Quit working
- 64 Audience member
- 65 "A Doll's House" star Janet
- 66 Listening devices

67 Pottery pieces

DOWN

- 1 Silo's purpose
- 2 Swimmer Pablo
- 3 Maximally dry
- 4 Official recording
- 5 Middle of a minuet
- 6 Musical compositions
- 7 New York resort lake
- 8 Vibrating musical effects
- 9 Opening letters

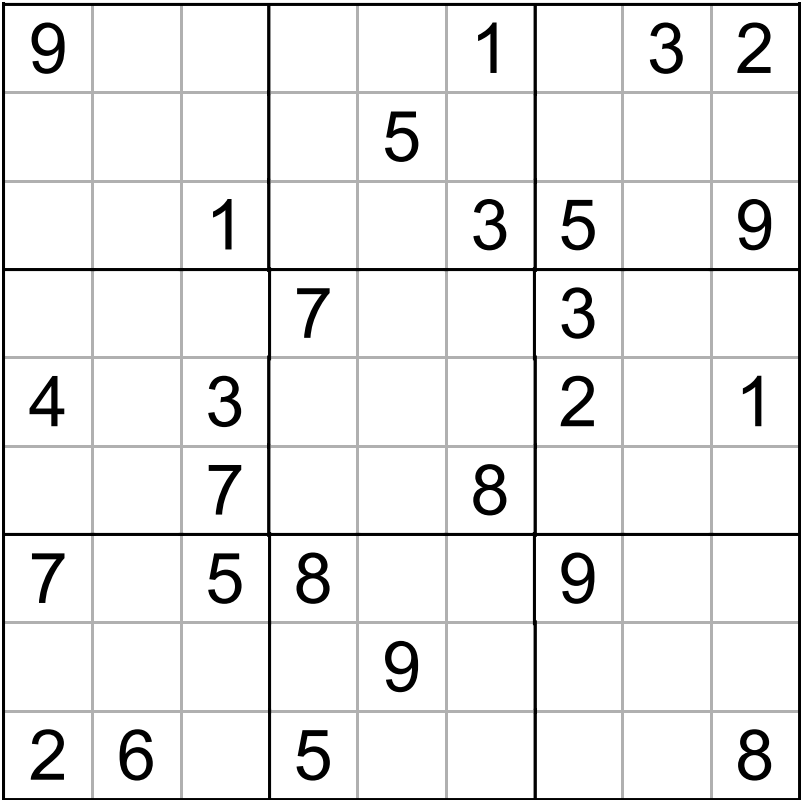
10 Comic Crosby

- 11 River feeders
- 12 Racetrack near Miami
- 13 Getty or Parsons
- 14 Trend upward
- 20 New Testament bk.
- 24 Stitch again
- 27 Envisions
- 31 Barley sprouts
- 33 Poi source
- 36 Feathered pet
- 38 Georgia or Ohio city
- 39 Fastest land animal

40 Sleeping partner

- 41 Constellation near Aquila
- 43 Marches
- 45 More piglike
- 46 Not yet broadcast
- 47 Mulls over
- 49 Stroked lightly
- 51 __ for the course
- 55 Out of __ way
- 58 Miller play, "All My __"
- 60 Software support
- 62 Work by Pindar

Instructions: Fill in the grid so that each column, row, and 3 by 3 grid contains exactly one of each of the digits 1 through 9. Solution on page 8.



Solution, tips, and computer program at <http://www.sudoku.com>

© Puzzles by Pappocom

Doonesbury

BY GARRY TRUDEAU

Dilbert®

by Scott Adams

Bonus Puzzle

Solution, page 13

ACROSS

- 1 Tiny tigers
- 5 Filled with wonder
- 9 Bewildered
- 14 Shrek, for one
- 15 Learning method
- 16 Emus' kin
- 17 Disembarked
- 18 Up in smoke
- 19 Boggy area
- 20 In deep space
- 23 Long in the tooth
- 24 Commercial blurbs
- 25 Have a lofty goal
- 29 Merry sounds
- 31 Harper Valley grp.
- 34 Sounds of anguish
- 35 Singular performances
- 36 Emerald Isle
- 37 Really in the sticks
- 40 Twilight times
- 41 Gravy base
- 42 Absolutely not!
- 43 Lipstick shade
- 44 Marianas island
- 45 Walked deliberately
- 46 Skater Babilonia

- 47 Shad delicacy
- 48 Not visible from the crow's nest
- 56 Bakery loaf
- 57 Current
- 58 City on seven hills
- 59 Too tubby
- 60 Prevailing trend
- 61 Had down pat
- 62 Fluttery poplar
- 63 Battle souvenir
- 64 Dispatched

DOWN

- 1 Fossil fuel
- 2 Citrus hybrid
- 3 Ship's jail
- 4 Adam's third son
- 5 Fancy sock
- 6 Courted
- 7 Sicilian spouter
- 8 Bambi's folks
- 9 Warship assemblage
- 10 Spring occurrences
- 11 Antitoxins
- 12 Piece of cake!
- 13 Blond shade
- 21 Trunk

- 22 Hindu's sir
- 25 Fossil resin
- 26 Vino from Verona
- 27 Took measured steps
- 28 Loads a brayer
- 29 Not so interesting
- 30 Trebek or Karras
- 31 BYU location
- 32 Having prongs
- 33 Gide or Previn
- 35 Plato's portico
- 36 Peeping Tom
- 38 Apples and oranges
- 39 Computer command
- 44 Vegetable plot
- 45 More readily
- 46 Mock playfully
- 47 Valerie Harper role
- 48 Peepers
- 49 Second to a prez
- 50 Crude shelters
- 51 Tale of adventure
- 52 Irritates
- 53 Type of defense
- 54 Oracle's sign
- 55 Salamander
- 56 Slithery squeezer

1	2	3	4		5	6	7	8		9	10	11	12	13
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	48	49				50	51				52	53	54	55
56						57					58			
59						60					61			
62						63					64			

Simpson's Lawyer Claims First Amendment Protection

Simpson, from Page 1

First Amendment. "People make these objects part of their identity. It's a part of their personal expression," said Dwyer, according to the AP. Dwyer's claim was bolstered by an affidavit from Rosalind W. Picard ScD '91, Director of Affective Computing Research at the MIT Media Laboratory. In the affidavit, Picard wrote that wearable electronics

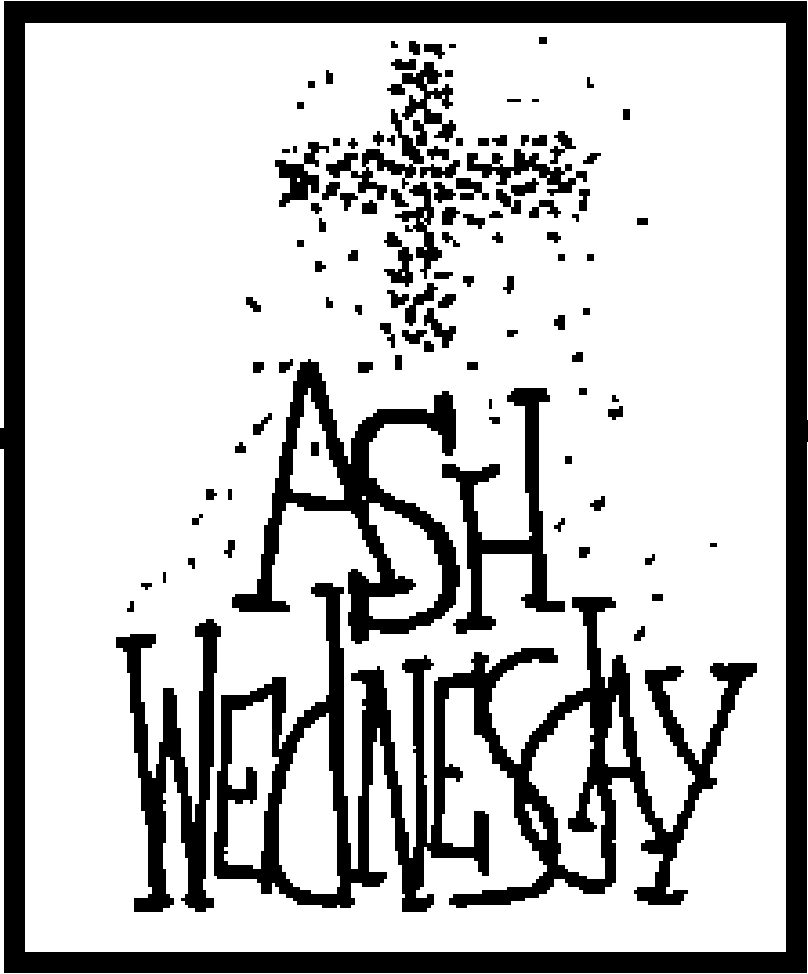
— such as Simpson's circuit board — are "commonplace in society" and "a method of self expression, fusing art and engineering." The affidavit also says that schools are trying to "encourage girls ... to undertake the study of electronics" and that one effort by a University of Colorado at Boulder professor "encourage[s] young women to create clothing-worn electronic technologies."

Simpson's attorney additionally

argued that the device was not a hoax device because it consisted of "separate components" and the device was disconnected when Simpson left the terminal. The district attorney has challenged the motion to dismiss, arguing in a petition that the device Simpson wore "would cause a person reasonably to believe that such device was an infernal machine." (See the prosecution's motion on page 8.)

Chapter 266 of Massachusetts Law, under which Simpson is being charged, requires prosecutors prove Simpson transported a "hoax device or hoax substance with the intent to cause anxiety, unrest, fear or personal discomfort to any person or group of persons." The arguments given by Simpson's attorney and the district attorney concern whether Simpson's light-up circuit board constitutes a "hoax device," not whether Simpson

intended to cause anxiety. Dwyer said in September that he firmly believed there was no evidence to support intent to cause anxiety and that "there is not a crime here." "It's not a crime in Massachusetts to exercise bad judgment," Dwyer said. The Simpson case is filed under docket number 0705-CR-1905. A copy of Rosalind W. Picard's affidavit is available on *The Tech's* Web site at <http://www-tech.mit.edu/V128/N1/simpson/>.



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MIT Chapel

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Lutheran-Episcopal Ministry at MIT
<http://web.mit.edu/lem/>

Commonwealth's Memorandum In Opposition to Defendant's Motion to Dismiss

The device worn by the defendant to Logan Airport was an assembled object. The defendant asserts that the device she wore to Logan airport does not constitute a hoax device because "separate components ... cannot constitute a hoax device." (D. Supp. Mem. 13). The defendant, however, cites no authority for this proposition and declines to inform the Court how this proposition, even if true, specifically applies to the defendant in this case. Presumably, the defendant is referring to the fact that she disconnected the 9-volt battery from the rest of her device upon leaving Terminal C. The defendant's argument fails for two reasons. Most obviously, it fails because a person who violates G.L. c. 266, § 102A1/2, by employing a hoax device with the required intent, does not escape criminal liability because she thereafter disassembles the device. The defendant in this case can no more escape criminal liability under § 102A1/2 than can a defendant escape liability for unlawful possession of a firearm because, after he displays the firearm in question, he disassembles it. It was still a firearm at the time of the offense. In this case, the battery was attached to the defendant's device from the time she entered Terminal C until the time she left it. It is irrelevant that she detached the battery as she left the terminal.

Second, in Carter, the Supreme Judicial Court said only that "the infernal machine condemned by § 102A must be an assembled object," Id. at 208, and not that it must have a battery attached to it. Even after detaching the 9-volt battery, the defendant still wore an assembled object on her chest, comprised of a circuit board, wires, and numerous LEDs. If the device still was such as "would cause a person reasonably to believe that such device was an infernal machine," it still constituted a hoax device. G.L. c. 266, § 102A1/2.

CONCLUSION

For the foregoing reasons, the Commonwealth respectfully requests that this Court deny the Defendant's Motion to Dismiss.

SOURCE: JAKE WARK, SPOKESPERSON FOR THE SUFFOLK COUNTY DISTRICT ATTORNEY'S OFFICE

Introductory Biology Subject Overenrolled

Lectures Held in 26-100 Will Be Seen Live in 4-370

Crowding, from Page 1

of those enrolled in the subject are freshmen. Not all students come to the class well prepared, Jacks said; while many students have an extensive biology background, others are seeing the material for the first time in years.

"The importance of biology in everyday life makes this an important course," said Jacks. He said the subject will prepare students to un-

derstand new developments in biology: "Stem cells, cloning, recombinant DNA technology, the genome revolution — all of these things that you read about in the newspaper every day."

Jacks said that with two lecturers, two course instructors, and about a dozen teaching assistants, the subject should be ready to handle the extra students.

"It's gonna' be historic, but I think we'll do fine," he said.

The FSILG Office Thanks Our Greek Leadership for their Dedication and Hard Work

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Solution to Sudoku

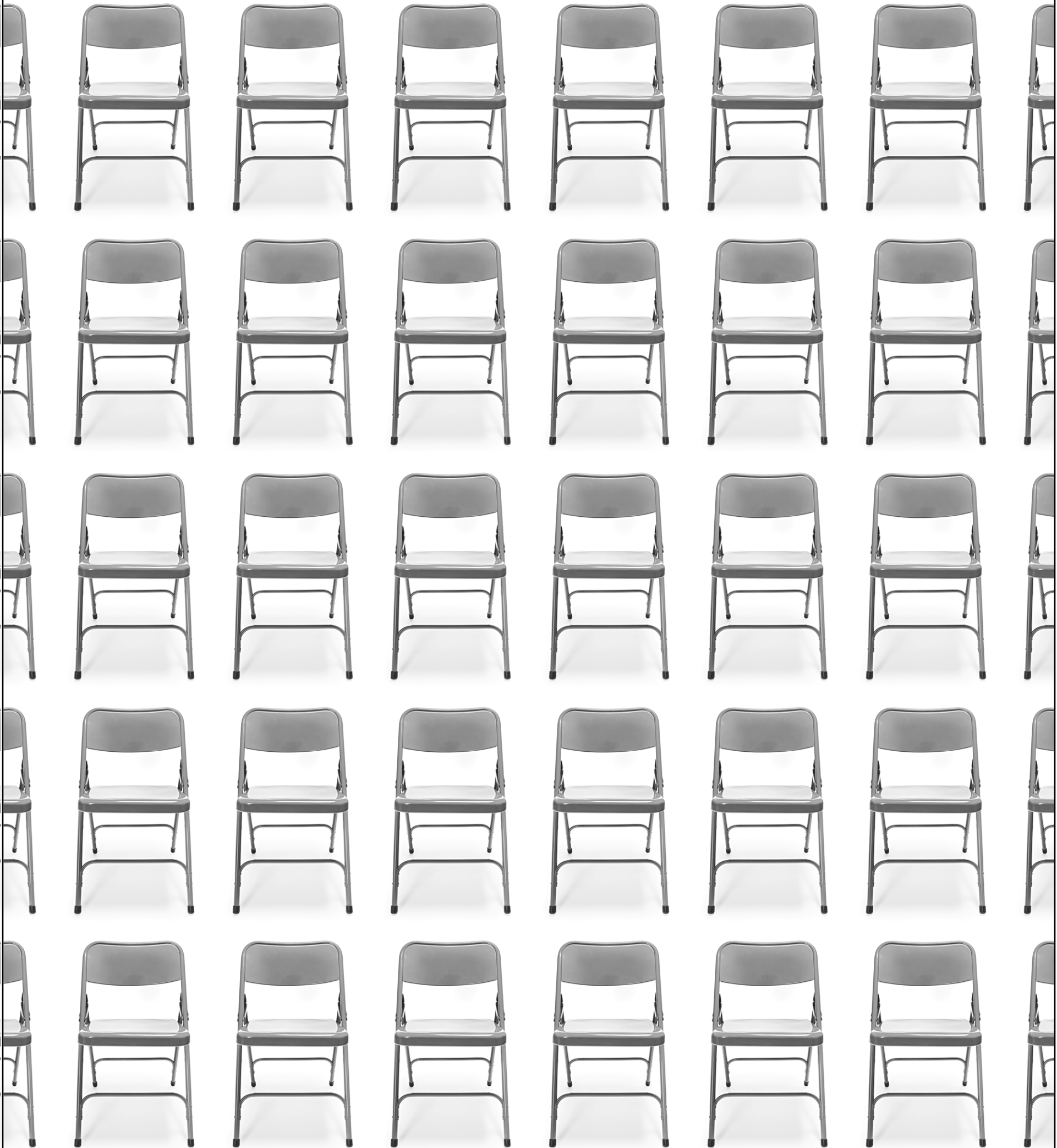
from page 6

9	5	4	6	7	1	8	3	2
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1	9	6	7	2	4	3	8	5
4	8	3	9	6	5	2	7	1
5	2	7	3	1	8	6	9	4
7	1	5	8	4	6	9	2	3
3	4	8	1	9	2	7	5	6
2	6	9	5	3	7	4	1	8

Solution to Crossword

from page 6

S	M	A	R	T	S	S	T	A	N	C	H	E	S
T	O	R	E	R	O	A	R	B	O	R	I	S	T
O	R	I	G	I	N	R	E	C	R	E	A	T	E
R	A	D	I	O	G	R	A	M	M	E	L	E	E
A	L	E	S	S	E	N	O	R	K	E	L	P	
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E	D	G	E	S	A	R	A	H	T	R	A	N	
E	M	I	T	S	K	A	R	A	T	E	K	I	D
T	A	T	T	O	O	E	D	R	E	T	I	R	E
A	T	T	E	N	D	E	E	M	C	T	E	E	R
H	E	A	D	S	E	T	S	S	H	A	R	D	S



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MTG Puts on a Wild ‘Wild Party’

The MIT Musical Theatre Guild premiered this past Friday their Independent Activities Period performance of Andrew Lipka’s “The Wild Party,” based on a 1920s poem by Joseph Moncure March of the same title. In “The Wild Party,” Queenie throws a party in order to get the best of her boyfriend, Burrs. The party degenerates into an all out orgy and comes to a dramatic climax when Burrs walks in on Queenie and Black. “The Wild Party” will have three more performances: Feb. 7–9, at 8 p.m. in La Sala de Puerto Rico.

(counter-clockwise from left)

Mae (Nicolina A. Akrahoff ’08) and Eddie (Darrell D. Cain ’08) sing about their wonderful life as a couple in the song “Two of a Kind.”

Queenie and Black (Carrie A. Lee ’10 and Matthew N. Stern ’08) stand back as the enraged Burrs (Matthew A. Ciborowski ’08) processes the scene.

Cast members perform “Good Heavens,” a musical within “The Wild Party,” composed by brothers and lovers Phil and Oscar (Carlos Cardenas ’09 and Dave Berger, not pictured).

Black (Matthew N. Stern ’08) kisses Queenie (Carrie A. Lee ’10) in an intense moment of passion and lust.

Photography by Ricardo Ramirez



The last challenge of a socially conscious society?

Depression strikes millions— indiscriminately. Depression is simply a suppression of brain activity that makes life unbearable. And even though depression is readily treatable, only 1 in 5 ever seeks treatment. Why do so many just drag themselves along or eventually seek relief through suicide? First, there's the lack of awareness of depression— as an illness and as the threat that it is to each and every one of us. Second, there's the unwarranted negative stigma attached to it. You know, the 'mental' thing. It's time to collectively face depression. To know it's an illness, not a weakness. And it's a challenge that's long overdue. It's taken too many of us already.

UNTREATED DEPRESSION

#1 Cause of Suicide

Public Service message from SA.VE (Suicide Awareness Voices of Education) <http://www.save.org>

MIT-Affiliated Research Center Builds an Energy-Saving City

By Andrew C. Revkin
THE NEW YORK TIMES

In an ever more crowded world facing environmental limits, the push is on to create entire communities with reduced needs for energy, water, land and other resources.

The latest effort comes not in some green hub like Portland, Ore., but in the Persian Gulf, fueled as much by oil wealth — and the need to find post-petroleum business models — as environmental zeal.

Groundbreaking is scheduled for Saturday for Masdar City, a nearly self-contained mini-municipality designed for up to 50,000 people, rising from the desert next to Abu Dhabi's international airport and intended as

a hub for academic and corporate research on nonpolluting energy technologies.

The 2.3-square-mile community, set behind walls to divert hot desert winds and airport noise, will be car-free, according to the design by Foster + Partners, the London firm that has become a leading practitioner of energy-saving architecture.

The community, slightly smaller than the historic district of Venice, will have similar narrow pedestrian streets, but shaded by canopies made of photovoltaic panels. It will produce all of its own energy from sunlight.

Water will flow from a solar-powered seawater-desalinization plant.

Produce will come from nearby greenhouses, and all waste will be composted or otherwise recycled, said Khaled Awad, property manager for the project.

The first phase, to be completed over the next two years, will be construction of the Masdar Institute, a graduate-level academic research center associated with the Massachusetts Institute of Technology.

Readers can see a simulated video tour of the city and post comments on the Dot Earth blog at nytimes.com/dotearth.

Attempts at such green communities have had mixed results. Arcosanti, the ecotopian town in the Arizona desert, was started three decades ago. Still a work in progress, it is now being encroached on by Phoenix's suburban expansion.



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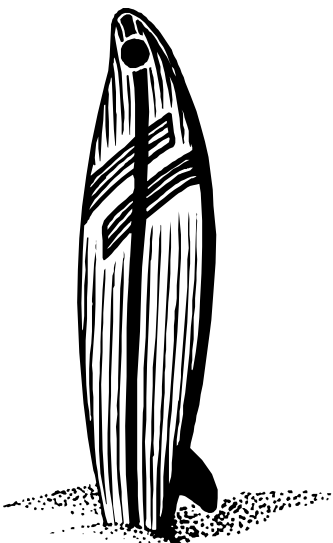
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Microsoft Research Lab Will Expand To Cambridge, Conduct Academic Research

By Katie Hafner
THE NEW YORK TIMES

SAN FRANCISCO

As other high-technology companies cut back on their research laboratories, Microsoft continues to increase its ranks of free-rein thinkers.

The company, which has research laboratories in Redmond, Wash.; Beijing; Cambridge, England; Bangalore, India; and Silicon Valley, will announce plans on Monday to open a sixth laboratory, in Cambridge, Mass., in the Boston metropolitan area.

These are laboratories where people focus on science, not product development. To lead the new laboratory, the company has appointed one of its veteran researchers, Jennifer Tour Chayes. Chayes, 51, who has a doctorate in mathematical physics, said, "We believe that in the long run, putting money into basic research will pay off, but you have to wait longer for it."

Microsoft, beset by competitive pressures from companies like Google, sees first-rate research laboratories as more important than ever. The company, which made a \$44.6 billion bid for Yahoo last week as one way to compete with Google, wants a set of laboratories in place that can develop business opportunities that will pay off well into the future.

"Essentially every other industrial lab I know is shrinking, with the exception of Google," Chayes said. Since she joined the company in 1997, she said, Microsoft Research has grown eightfold to 800 researchers who hold doctorates.

Those research scientists are far outnumbered by the thousands of Microsoft engineers working in advanced development and direct product development.

"The outcome of basic research is insights, and what development people do is take those insights and create products with them," Chayes said. "The two things are very different."

Microsoft is adamant about retaining a pure research department reminiscent of the old Bell Laboratories, whose scientists were awarded six Nobel Prizes.

"Microsoft is probably the sole remaining corporate research lab that still values basic research," said Maria Klawe, a mathematician who is president of Harvey Mudd College.

Google employs 100 scientists in its research laboratories. Many employees are encouraged to spend 20 percent of their time on something they are passionate about that may not be directly related to their main project.

The new Microsoft laboratory, which will be next door to the Massachusetts Institute of Technology, is scheduled to open in July. Chayes will be joined at first by three other Microsoft scientists, including her husband, Christian Borgs, who is also a mathematician and who will be deputy managing director of the Boston laboratory.

Chayes will be one of the first women to direct a research laboratory run by an American corporation. She was a tenured professor of mathematics at the University of California, Los Angeles, when Microsoft hired her to conduct research. Chayes was skeptical, she said, and wondered why Microsoft would want a mathematician whose work might not pay off for many decades. But the company promised her that she would have full academic freedom and support for unconventional work.

Chayes has since built her group in Redmond, called the Theory Group, into one of the most eminent research groups on or off a university campus. "Anyone who's anyone in theoretical computer science visits her laboratory," said Lenore Blum PhD '68, a computer science professor at Carnegie Mellon University.

Richard F. Rashid, a former Carnegie Mellon computer scientist who is senior vice president of research at Microsoft, said Chayes's work is valuable.

"If you look at her research, it's very theoretical," said Rashid, who holds a doctorate in computer science. At the same time, he said, two areas of her expertise have proved useful for Microsoft.

The work she performed in developing simple models of certain liquids and solids turned out to be useful in the study of random, self-engineered networks like the Internet. And some of Chayes's insights into theoretical computer science have recently led to the development of some exceedingly fast networking algorithms.

Over the years, Chayes has been courted by other research laboratories, including Google's, but she says she remains content at Microsoft. One reason is the intellectual freedom it offers. Unlike other companies with intellectual property interests to protect, she said, Microsoft does not require internal prepublication review of academic papers written by its researchers.

Chayes, who works with groups that help bring more young women into the sciences, said she hoped to serve as a role model for young women considering a career in computer science or math, two fields that have long suffered a dearth of women.

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MIT Professors, Christensen Talk ‘Jumper’

By **Dennis Overbye**
THE NEW YORK TIMES

CAMBRIDGE, MASS.

In a battle waged with popcorn, floodlights, chalk and star power, science and art squared off in a lecture hall at the Massachusetts Institute of Technology one recent evening.

On one side of a vaulted cultural divide were Doug Liman, director of the coming movie “Jumper,” about a young man who discovers he can transport himself anywhere he wants just by thinking about it, and Hayden Christensen, the film’s star.

On the other were a pair of the institute’s physics professors, Edward Farhi and Max Tegmark, experts on the type of physics the movie was purporting to portray, who had been enlisted to view a few scenes from it and talk about science.

In the middle were hundreds of MIT students who had waited for hours to jam into a giant lecture hall known as Room 26-100 and who proved that future scientists and engineers could be just as rowdy and star-struck as the crowds outside the MTV studios in Times Square.

“I guess I wasn’t expecting such a lively group,” Christensen said.

The evening was the brainchild of Warren Betts, a veteran Hollywood publicist who has helped promote a number of movies with scientific or technological themes, including “Apollo 13.” “Hollywood has gotten much smarter about bringing scientists in,” said Betts, who said he had gotten excited after a Caltech physicist told him that teleportation was actually an accomplished fact in the quirky realm of quantum physics.

Betts arranged for clips from the movie, scheduled for a Feb. 14 release, to be shown, and then inveigled Farhi, an expert on quantum computers, and Tegmark, a cosmologist, to participate in a panel discussion. They agreed, as long as they could talk about real physics.

“What do I know about movie production?” asked Farhi, who pronounced himself “clueless.” He said, “If the students learn something, it’s fine, I’m happy.”

The corridor outside MIT’s venerable lecture hall was transformed for the occasion into a red carpet — sans the actual red carpet — lined with television cameras and reporters. At the appointed hour, Christensen, who played the young Anakin Skywalker in “Star Wars Episode II: Attack of the Clones,” and “Star Wars Episode III: Revenge of the Sith,” began to proceed slowly down the line.

Liman, the director, meanwhile, confessed to being nervous. “We’re about to see a couple of MIT professors rip me to shreds,” he said. “I hope they appreciate that I tried to respect the physics of the planet we live on.”

Liman, who directed “The Bourne Identity,” and “Mr. and Mrs. Smith,” said he had been a “physics prodigy” in high school, which had gotten him into Brown University despite a checkered adolescence. He never took a physics class in college, however. “Being good at it made it a little boring,” he said.

He said he had fallen in love with the “Jumper” script — adapted by David S. Goyer, Jim Uhls and Simon Kinberg from a series of young adult novels by Steven Gould — because of its honesty. The first thing the new superhero does with his powers is rob a bank.

“The story was as honest as it could be,” Liman said.

He said he had spent a lot time trying to figure what teleportation would actually look like, never mind what causes it. If a body suddenly disappeared, for example, there would be a rush of air into the vacuum left behind.

Physics, Liman said, is more connected to filmmaking than one might expect. “I liked problem solving,” he

said. “A film,” he added, “is one big problem.”

An hour later, Farhi and Tegmark, true to their words, let the air out of the “Jumper” balloon.

In real experiments recently, Farhi told the movie fans, physicists had managed to “teleport” a single elementary particle, a photon, which transmits light, about one and a half miles, “a little less exotic than what you see in the movie.”

What is actually teleported in these experiments, he explained, is not the particle itself but all the quantum information about the particle.

To accomplish this is no small matter. Among other things, the teleporters have to create a pair of so-called entangled particles, which maintain a kind of spooky correlation even though they are separated by light years. Both of them exist in a kind of quantum fog of possibility until one or the other is observed. Measuring one particle instantly affects its separated-at-birth twin no matter how far away. If one is found to be spinning clockwise, for example, the other will be found to be spinning counter clockwise.

In order to use this magic as a quantum telegraph wire to teleport the information about a third particle, Farhi emphasized, you have to send a conventional signal between the entangled twins, and that takes time, according to Einstein. “You cannot get that thing over there faster than the speed of light,” Farhi said, to cheers from the crowd.

The real lure, he said, is not transportation, but secure communication. If anybody eavesdrops on the teleportation signal, the whole thing doesn’t work, Farhi said. Another use is in quantum computing, which would exploit the ability of quantum bits of information to have different values, both one and zero, and at the same time to perform certain calculations, like factoring large prime

numbers, much faster than ordinary computers.

As Tegmark said, “Nobody can hack your credit card, and then you can build a quantum computer and hack everybody else’s card.”

One student asked the physicists if they rolled their eyes at the scientific miscues in movies. That was too much like work, protested Farhi, who said he was more interested in the acting and the characters. “When I go to a movie I’m not that interested in scientific accuracy,” he said.

Tegmark said that even inaccurate science fiction movies could inspire scientists to think. You could see something that you think is impossible, he said, but that might start you thinking. “Why is that impossible? It can trigger a train of thought,” he said.

“The hard part of science is finding the right questions,” Tegmark said.

Asked if it mattered what scientists said, Liman said that he always tried to get to know the reality behind a film, but that it was not always so easy. One professor he approached for advice about “Jumper” threw him out of his office, he said. He went on to describe his attempts to portray the teleportation jumps realistically. Wind would rush to fill the vacuum left by the departing body, he said, and papers would fly around.

“Yeah,” Tegmark said.

Under some conditions moisture would condense out of the air into clouds.

The physicists nodded. “In any other place, I would sound very scientific,” Liman said, to laughter and applause.

By now the divide between the two cultures was getting as fuzzy and blurred as some quantum fog.

Tegmark asked what scientists could do to help the movie makers.

“Watch ‘Jumper,’” Christensen answered, “and then get to work and figure out how to do it.”

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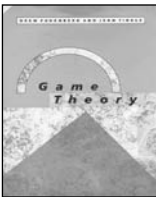
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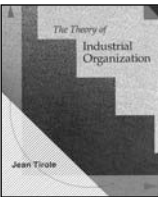
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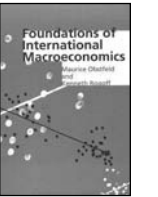
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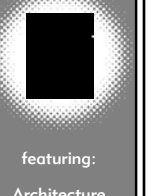
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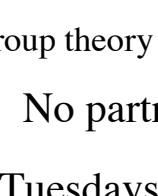
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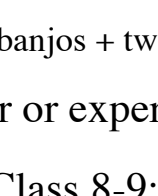
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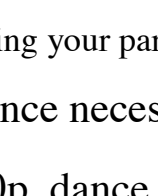
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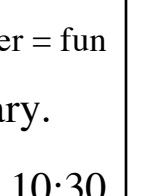
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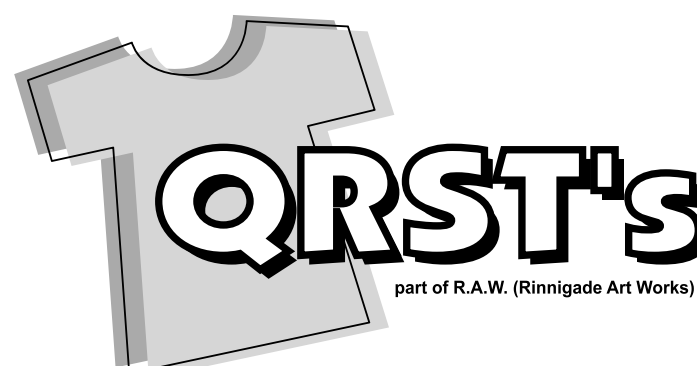
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Kerry, Others Speak Endorsing Obama at Monday Night Rally

Rally, from Page 1

ed between Obama and Clinton. He liked the fact that Obama “gets everyone riled up.” But, he said, Obama “can come off as pretentious.”
Miriam Quintal, a Harvard graduate student in chemistry, had already decided on Obama. She said that the “issues are important,” but “the judg-

ment and inspiration of Obama” won her over.
Tess Hetzel, 49, of Somerville had also decided on Obama. She said bipartisanship was her top deciding factor: “I’m tired of seeing nothing done in Washington.”
“He’s the only one who can pull the two sides together,” she said.



Massachusetts senators Edward M. Kennedy and John F. Kerry speak on stage just before Senator Obama.



Senator Kennedy, Governor Patrick, and Senator Kerry look on as Senator Barack H. Obama addresses the crowd.



Attendees waved homemade signs to express their support for Obama.

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MIT (12-8, 3-4)	81	
Wheaton College (12-6, 3-4)	84	

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Wheaton College (13-5, 6-0)	78	
MIT (8-9, 1-5)	71	
Saturday, Feb. 2, 2008		
U.S. Coast Guard Academy (14-3, 6-1)	45	
MIT (9-9, 2-5)	47	

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Wednesday, Jan. 30, 2008		
Worcester Polytechnic Institute (3-6-1)	3	
MIT (10-2-0, 6-2-0 NECHA ² Conf. A East)	6	

Women's Ice Hockey		
Friday, Feb. 1, 2008		
Saint Michael's College (5-10-1, 5-6-1)	3	
MIT (0-12-1, 0-11-1 ECAC ³ East)	1	
Saturday, Feb. 2, 2008		
Norwich College (7-6-2, 4-5-2)	3	
MIT (0-13-1, 0-12-1)	1	

Pistol		
Saturday, Jan. 26, 2008		
MIT	6173	
Army	6296	

Squash		
Saturday, Feb. 2, 2008		
Boston College	2	
MIT (2-7)	7	

Men's Swimming and Diving		
Saturday, Feb. 2, 2008		
Amherst College (5-2)	146	
MIT (7-1)	152	

Women's Swimming and Diving		
Saturday, Feb. 2, 2008		
Amherst College (7-0)	167	
MIT (6-4)	122	

Men's Volleyball		
Tuesday, Jan. 29, 2008		
MIT (4-4, 3-1 NECVA NE ⁴)	3	
Lesley University (0-8, 0-7)	0	
Thursday, Jan. 31, 2008		
MIT (5-4, 4-1)	3	
Lasell College (3-2, 2-1)	0	

Wrestling		
Wednesday, Jan. 30, 2008		
Bridgewater State College (10-5)	24	
MIT (0-16)	6	
Roger Williams University (6-4-2)	45	
MIT (0-16)	9	

¹New England Women's and Men's Athletic Conference
²NorthEast Collegiate Hockey Association
³Eastern College Athletic Conference
⁴North East Collegiate Volleyball Association, New England Division

Giants Restrict Pats
Offense to 14 Points
By Pressuring Brady

Super Bowl, from Page 20

The Giants, however, wouldn't quit. Eli Manning led an inspiring drive, using his feet to avoid defenders and making the big play when it mattered. His thirteen yard floater to Plaxico Burress in the corner of the end zone secured the lead — and eventually the win — for the Giants.

The Patriots failed to capitalize on a chance to make history, and their loss was the Giants' gain. For Eli Manning, a Super Bowl Most Valuable Player award to match his brother's is only secondary to the ultimate prize of winning the championship. The confidence Manning showed in making big plays at big times should finally silence his critics (myself included) who before didn't think he had the poise or skill to perform under pressure.

The other story of the night was

the Giants defense. Defensive coordinator Steve Spagnuolo's defense put pressure on Brady all night, forcing rushed decisions and bad throws.

It's no surprise that Spagnuolo trained under the direction of Jim Johnson, the Eagles defensive coordinator who is famous for his unrestrained and exotic blitz packages. Johnson's Eagles defense followed a similar game plan against the Patriots in week 12 this season, letting Patriots wide receiver Wes Welker beat them from the slot all night while preventing Randy Moss from making the big play.

While the loss is disappointing, the one thing that Patriots fans can take away from the game is that the team isn't looking to get any worse. While key members of their defense are getting old, the core team will return and only be hungrier for perfection.

MIT BLOOD DRIVE

Mon, February 11, noon-6pm
Tue, February 12, 8am-2pm
Wed, February 13, noon-6pm
Thu, February 14, noon-4pm
Fri, February 15, noon-6pm

La Sala, Student Center

It is MIT policy to allow employees time off with pay to donate blood at the drives that are sponsored on campus.

For more information or to make an appointment, visit:
<http://web.mit.edu/blood-drive/www/>

Blood Drives are sponsored by ARCTAN, MIT's American Red Cross Team and Network.

All donors and volunteers will get a free Patriots blood drive t-shirt and free pizza.

This space donated by The Tech

Cambridge-MIT Exchange (CME)

Sophomores! Thinking about the Cambridge-MIT Exchange?

Applications are due to departments by February 8, 2008. See <http://web.mit.edu/cmi/ue>

SPORTS



OMARI STEPHENS—THE TECH
Stephen A. Morton '10 takes his first attempt in the finals of the long jump competition. Morton went on to win the competition with a jump of 6.92 meters (22' 8.5"). The MIT men's track and field team destroyed the competition this past Saturday, Feb. 2, scoring 240 points to best Tufts University (107 points), Springfield College (86), Bowdoin College (70), and Colby College (51).

The Tech's Athlete of the Week:
Joseph B. Silverman '10

MIT wrestler Joseph B. Silverman '10 has been impressive all season for the Engineers, but his performance in January 26's quad meet will be one to remember. In front of his home crowd, Silverman defeated Bridgewater State University's James Quinlan, the top ranked wrestler in New England and seventh ranked Division III wrestler in the nation at 184 pounds. The 4-0 decision was one of three victories on the day for Silverman, bringing his overall individual record to 21-11 this season.

Despite Silverman's great showing, MIT still fell to all three of its opponents: Norwich University (36-21), Plymouth State University (35-19), and Bridgewater State College (39-6).

—Shreyes Seshasai, Sports Editor

The Drexel InterView™
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Cambridge Community Television, channel 10

January 30, February 1 at 7 p.m.
Norman Podhoretz
Editor-at-large of *Commentary*,
author of *World War IV: The Long
Struggle Against Islamofascism*

February 6 and 8 at 7 p.m.
Paul Muldoon
Pulitzer Prize-winning poet,
poetry editor of *The New Yorker*



The Drexel InterView™ features a broad cross-section of influential artists, innovators and public figures. Produced by Drexel University and hosted by Paula Marantz Cohen, cultural critic, novelist and Distinguished Professor of English at Drexel.
Drexel University www.drexel.edu **Live it.™**

Game of the Week: Yuan's Jumper Lifts Engineers Over Coast Guard

By **Mindy Brauer**
DAPER STAFF

A baseline jumper by Clara J. Yuan '09 with 7.2 seconds on the clock helped lift MIT to a 47-45 victory over the U.S. Coast Guard Academy in a New England Women's and Men's Athletic Conference women's basketball game on Saturday.

With the win, the Engineers improved to 9-9 on the year and 2-5 in conference play, while the Bears (14-3), previously on a school-record seven game winning streak, suffered its first NEWMAC loss of the season.

Coast Guard came out strong, building a 14-5 lead after only seven minutes with Melissa Martinelli scoring the first 11 points for Coast Guard. MIT countered with a 13-5 run, and the teams entered halftime with Coast Guard leading 25-20.

MIT opened the second half well,

Why this is the game of the week?

Facing one of the top teams in their conference, the women's basketball team came through in the clutch with a last second basket and solid defense. After allowing Martinelli to score the Bears' first 11 points, the team didn't panic and held NEWMAC's second highest scorer to only 19 points.

Super Bowl MVP Eli Manning, Giants End Patriots' Perfect Run

By **Shreyes Seshasai**
SPORTS EDITOR

In last week's issue of *The Tech*, I wrote that Super Bowl XLII would be the "coronation of the greatest football team in history. ... Patriots win, no-contest. New England is better in every facet of the game." Well, clearly I was wrong.

Column

If you knew me personally, you would have been shocked by what I wrote last week. I've cheered adamantly, often without restraint, against the Patriots ever since they beat the Philadelphia Eagles in the Super Bowl three years ago. I've worn my Brian Westbrook jersey into Gillette Stadium, complained every time the Pats made a brilliant personnel decision, and joined the millions of fans asking for a better explanation of the outcome of Spygate.

But last week, feeling that I should start using reason when judg-

ing the Patriots, I suppressed my hatred and praised the Patriots for what they've become: the best team in the league, and perhaps the greatest team of all-time.

Don't worry fellow Eagles fans — I'll never make that mistake again.

According to Nielsen Media Research, 97.5 million people tuned in to watch the game Sunday night, making it the second most watched TV show in history. While most of those people were disappointed by the slow, low-scoring first three quarters, the ending was certainly not short of drama.

Patriots quarterback Tom Brady led his offense down the field for a go-ahead touchdown with only 2:42 remaining. The short pass to wide receiver Randy Moss that looked so easy was meant to be a fitting end to a year where both players set all-time records for touchdowns in a season.

Super Bowl, Page 19



ANDREA ROBLES—THE TECH
Kenneth K. Rosche '08 jumps high to slam the ball during the Engineer's game versus Lasell College on Thursday, Jan. 31. MIT won 3-0.

UPCOMING HOME EVENTS

Tuesday, Feb. 5, 2008
Men's Volleyball vs. Endicott College 7 p.m., Rockwell Cage

Wednesday, Feb. 6, 2008
Men's Ice Hockey vs. Westfield State College 8 p.m., Johnson Ice Arena

EECS students:
Where do you want to go?

China	France	Germany
India	Israel	Italy
Japan	Mexico	Spain

Go international!
with
EECS & MISTI

OPEN HOUSE

Tuesday, February 12
4 to 6pm
Grier Room (34-401B)

Explore opportunities
Meet returning interns
Refreshments will be served

EECS INTERNSHIPS ABROAD with MISTI